MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

TIS2151 – WEB APPLICATION DEVELOPMENT

(All Sections/Groups)

3rd March 2016
9.00am - 11.00am
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of **FIVE** printed pages, including the cover page with **FOUR** questions. Attempt **ALL** questions.
2. The mark distribution for each question is given.
3. Please write all your answers in the answer booklet provided.

QUESTION 1

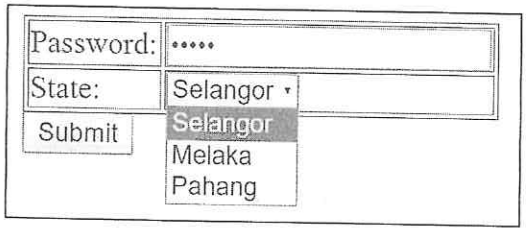
(a) Fill in the blanks to complete the HTML codes. [3 marks]

```
<html>
  <head>
    <title>Web Applications!</title>
  </head>

  <body>
    <!-- Create an image hyperlink -->
    <p>
      <a (i)____ = "contactus.html">
        <img (ii)____ = "contactUs.jpg" width = "100"
          (iii)____ = "150" (iv)____ = "Contact Us">
      </a>
    </p>

    <!-- Create a horizontal line -->
    (v)____

    <!-- Create an unordered list -->
    <p>
      (vi)____
        <li>HTML</li>
        <li>CSS</li>
        <li>Java</li>
      (vii)____
    </p>

  </body>
</html>
```

(b) Write the codes to create an HTML form as shown in the figure below, to obtain user's password and choice of state.

- A `table` is placed within the `form` tag. It has 2 rows and 2 columns with `border` set to 1.
- The `password` input allows user to insert password.
- The `select` element has 3 `option` elements (Selangor, Melaka, Pahang).
- There is a `submit` button to allow user to submit the form.

[5 marks]



Continued...

(c) Write an HTML code to accomplish each of the following tasks:

(i) Create a `url` input element with a `placeholder` text (http:// www.domainname.com). The element should automatically receive the focus when the form is rendered in the browser. Users are required to enter a value in the `url` input element before submitting the form.

(ii) Create a `range` input type element between 10 to 50. Set the `value` attribute to 30.

[2 marks]

QUESTION 2

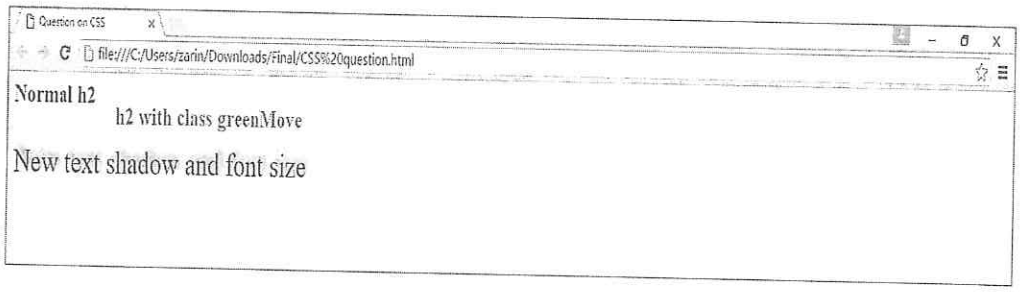
(a) Web Content Accessibility Guidelines (WCAG) is developed with a goal of proving a single shared standard for web content accessibility that meets the needs of individuals, organisations, and governments internationally. Briefly describe any TWO of its guidelines.

[2 marks]

(b) What is the use of active white space in web design?

[1 mark]

(c) Write one html script for the following page described in (i) and (ii) with CSS rules. Note that the text "Normal h2" and "h2 with class greenMove" is displayed using a single `h2` element, and the text "New text shadow and font size" is displayed using a single `p` element.



(i) To change the colour of the `h2` text "h2 with class greenMove" to green and shifts them down 20 pixels and right 20 pixels using a class style called `greenMove`. The text "Normal h2" is using normal `h2`.

[4 marks]

(ii) To create a text shadow on the `p` text "New text shadow and font size" with an offset-x of `5px`, an offset-y of `-5px`, a blur radius of `10px` and red shadow. Increase the font size to 200%.

[3 marks]

Continued...

QUESTION 3

(a) Write one Javascript program that accomplishes the following tasks:

(i) Prompt user to enter an integer using the `window` object `prompt` method. Assign the user's input to a variable `input1`.

(ii) Convert `input1` to an integer, and store the converted value in a new variable `num1`.

(iii) Create a new array with 3 elements. Name the array `array1`.

(iv) Initialize the first element of `array1` to 10.

(v) Compute the summation of `num1` and the first element of `array1`, and assign the sum to a new variable `total`.

[5 marks]

(b) Identify the errors in the following Javacsript segment of code. Correct and rewrite the codes to produce the expected output.

```
<script language=javascript type="text/javascript">
    hrToMin(13);

    function hrToMin(hrs)
    {
        var minutes;
        minutes = 60*hrs;
        return minutes;
    }
    document.write("The time is " + minutes + " minute");
</script>
```

[2 marks]

(c) The following Javascript segment of code contains an if-else statement:

```
<script language=javascript type="text/javascript">
    var y = parseFloat(x);
    var n = parseFloat(m);

    if (COND) {
        document.write("Correct result");
    }

    else {
        document.write("Incorrect result");
    }
</script>
```

Write Javascript codes to replace ***COND*** for the following conditions:

(i) The variable y is greater than 0 AND y is less than or equals to 100.

(ii) The variable y is not equals to 10 OR y is less than 0.

(iii) The product of variable y and n is equals to 45.

[3 marks]

Continued...

QUESTION 4

(a) Explain any TWO limitations of client-side scripting.

[2 marks]

(b) Assume that an SQL database called Convocation has been created with 3 tables: Student, Faculty and Schedule. Write the SQL query to do the following:

i. Select the columns `StudentID`, `FirstName` and `LastName` from `Student` table where the student's first name starts with M in ascending order by `LastName`.

[2 marks]

ii. Update the `Description` to `'Faculty of Computing'` for the row in table `Faculty` that has the `FacultyName` equals to `'FOC'`.

[2 marks]

(c) Describe what is meant by the statement "PHP variables are loosely typed".

[1 mark]

(d) Write PHP script to do the following:

- Create a cookie named person and assign your name to the cookie. Set the cookie to expire after 3 hours.
- Add the code to check whether the cookie has been set. If it has, display the cookie value.

[3 marks]

End of Page